

AMENDMENT TO THE CLAIMS

Please amend the claims as follows:

1. (Original) A fan motor comprising:

a single-phase stepping motor including a stator excited by applying an electric current to a coil to function as a single-phase magnetic pole, and a rotor which has a permanent magnet magnetized to a single phase and rotates as the magnetic pole of the stator changes;

an impeller which is rotated by a rotating shaft of the rotor; and
a drive circuit for controlling an application of a current to the coil,
wherein the drive circuit applies pulse voltage to the coil and the coil constant is set so that a mean value of the current applied to the coil is 10 mA or smaller.

2. (Original) The fan motor according to claim 1, wherein the drive circuit includes CMOS transistors.

3. (Currently Amended) The fan motor according to claim 1, wherein ~~a timepiece IC is used as the drive circuit comprises a timepiece IC.~~

4. (Original) A fan motor according to claim 1, wherein a pulse frequency which is output from the drive circuit at a time of starting is set lower than the pulse frequency during a steady operation.

5. (Currently Amended) A fan motor according to claim 1, further ~~comprising comprising:~~
~~a coupling mechanism which couples the impeller to the rotating shaft relatively and rotatably, wherein the coupling mechanism couples the impeller slidably to the rotating shaft of the rotor; rotor, causes the rotating shaft to race with respect to the impeller at the a time of starting the motor; motor, and causes the impeller to rotate by following the a rotation of the rotating shaft by friction during the a steady operation.~~

6. (Currently Amended) The fan motor according to claim 1, further ~~comprising comprising:~~

a coupling mechanism which couples the impeller to the rotating shaft relatively and rotatably, wherein the coupling mechanism couples the impeller slidably to the rotating shaft of the ~~rotor~~; rotor, includes a permanent magnet for attracting the impeller so as to contact the impeller against the rotating shaft of the rotor with a predetermined holding-down force; ~~force~~, causes the rotating shaft to race with respect to the impeller at ~~the-a~~ time of starting the ~~motor~~; motor, and causes the impeller to rotate by following ~~the-a~~ rotation of the rotating shaft during ~~the-a~~ steady operation.

7. (New) The fan motor according to claim 1, wherein the stator comprises a pair of stator yokes that include thin magnetic boards.

8. (New) The fan motor according to claim 7, wherein the pair of stator yokes comprise magnetically symmetrical L-shaped material.

9. (New) The fan motor according to claim 5, wherein a front end portion of the rotating shaft has a spherical shape and is inserted into the impeller.

10. (New) The fan motor according to claim 6, wherein the permanent magnet is fixed coaxially with the rotating shaft to an underside of the impeller.

11. (New) The fan motor according to claim 2, wherein the drive circuit comprises a controller that sends drive signals to the CMOS transistors and applies a driving voltage having an alternating pulse waveform to the coil.

12. (New) The fan motor according to claim 1, wherein the drive circuit comprises a controller that drives the single-phase stepping motor at a constant rotation rate.

13. (New) The fan motor according to claim 1, further comprising a plastic friction member that couples the impeller and the rotating shaft.

14. (New) The fan motor according to claim 13, wherein a frictional force between the rotating shaft and the impeller is adjustable by altering a contact portion of the friction

member.